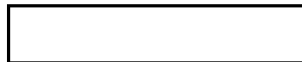


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COMMUNITY ON-LINE INTELLIGENCE
SYSTEM (U)

STATISTICAL SUMMARY
OF
USAGE AND PERFORMANCE

TR-72-1169-14



14 December 1972

Contract Number DAAB03-70-C-0163

EXCLUDED FROM GDS
(DD Form 254 GP-1)

This material contains information affecting the national defense of the United States within the meaning of the espionage laws, Title 18, U.S.C., Sections 793, 794, and 798, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law.

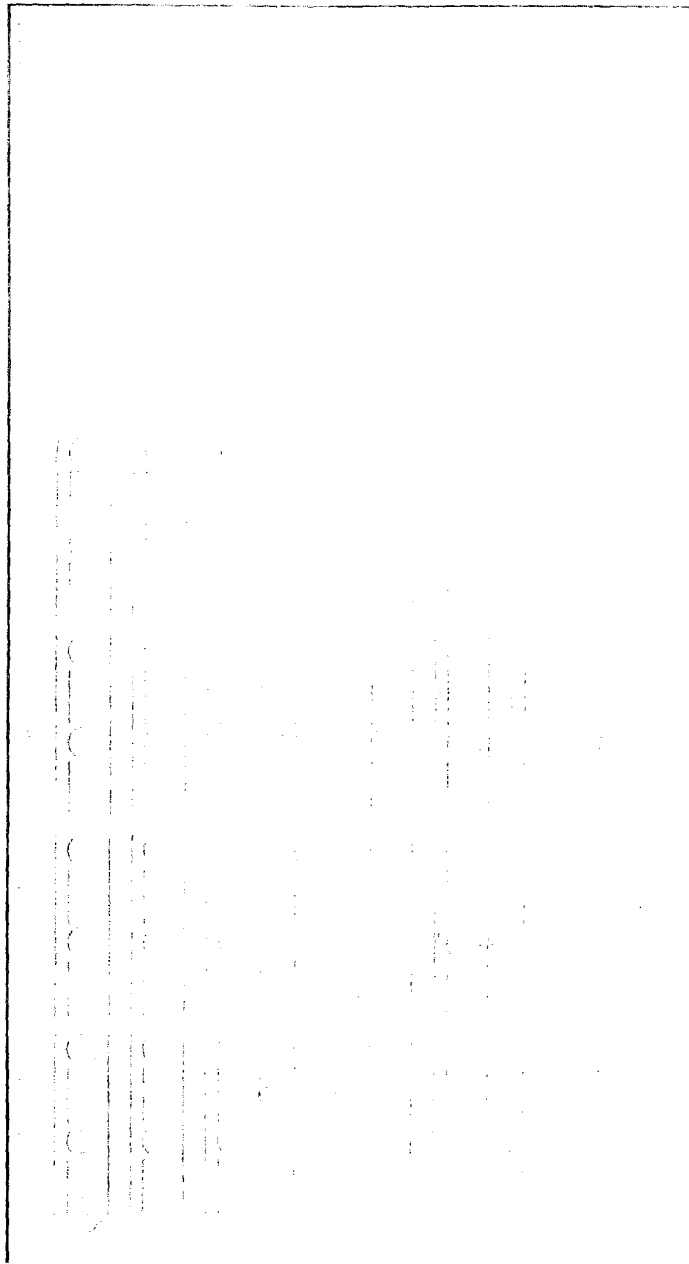
informatics inc

Systems and Services Company
6000 Executive Boulevard
Rockville, Maryland 20852
(301) 770-3000 Telex: 89-521

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informatics inc



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COMMUNITY ON-LINE INTELLIGENCE SYSTEM

STATISTICAL SUMMARY
OF
USAGE AND PERFORMANCE

14 December 1972

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SUMMARY OF COINS TRAFFIC
for Period of October 1971 - October 1972 (U)

MONTH	NUMBER OF INTERROGATIONS
OCT 71	(1004)
NOV 71	1753
DEC 71	1101
JAN 72	1104
FEB 72	1359
MAR 72	1697
APR 72	1303
MAY 72	2052
JUNE 72	1972
JULY 72	2599
AUG 72	2319
SEPT 72	1970
OCT 72	1817
TOTAL NOV-OCT	21046

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MAJOR EVENTS

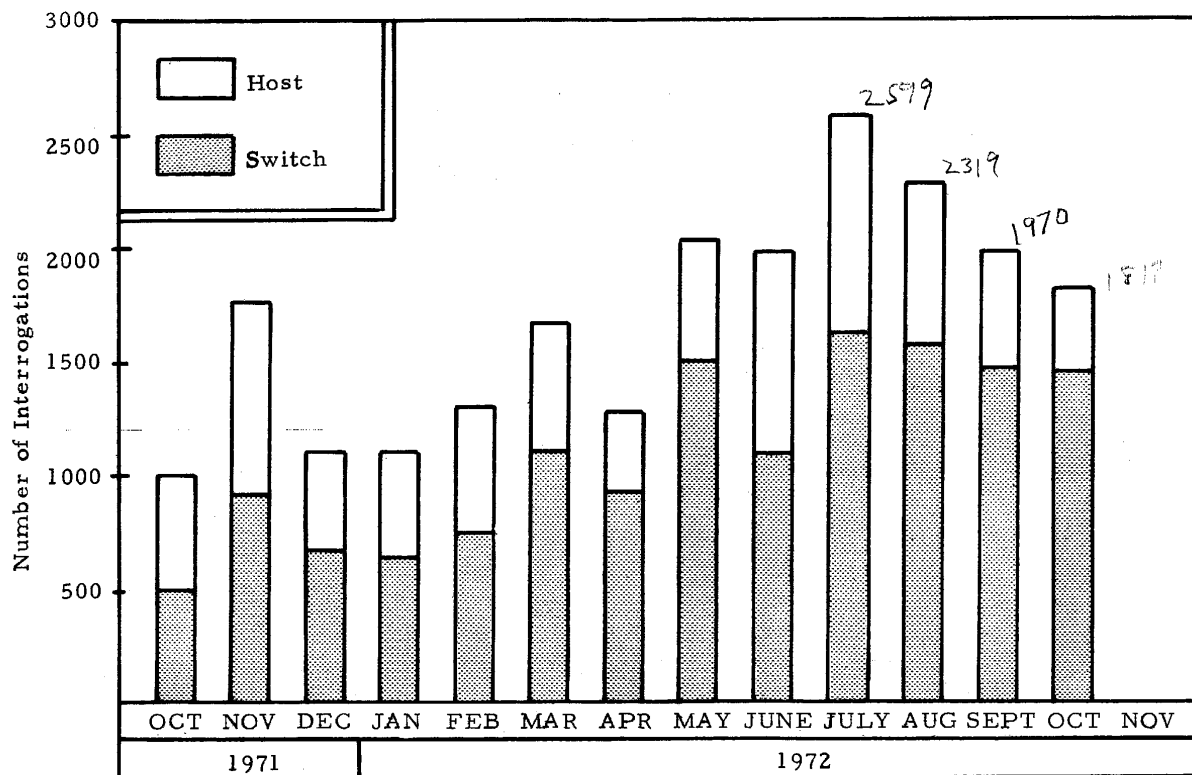
Oct 1971	TEST AND ANALYSIS TASK BEGUN
Nov 1971	FIRST REPORT DISTRIBUTED
Dec 1972	SUCCESSFUL CONTROLLED TEST
Feb 1972	BEGAN IDENTIFICATION OF NFOIO AS A SUBSCRIBER
Mar 1972	CONAD UNAVAILABLE FOR TWO WEEKS DUE TO CONSTRUCTION
Mar 1972	SUCCESSFUL CONTROLLED TEST
Apr 1972	DISCONTINUED INCLUSION OF DIA/CONAD TRAFFIC
Apr 1972	PACOM JOINED COINS NETWORK
Apr 1972	NSA IMPLEMENTS MAJOR SYSTEM CHANGE
May-June 1972	NPIC UNAVAILABLE DUE TO CONSTRUCTION
June 1972	TMA IMPLEMENTATION COMPLETE
Oct 1972	IDENTIFY DIA SCHOOL AND NSA TILE TRAINING FACILITY AS SUBSCRIBERS

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COINS TRAFFIC BY MONTH (U)

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Analysis of COINS Interrogations By Host
for Period of
November 1971 - October 1972 (U)

Host	Switch Traffic		External Traffic	
	Number of Interrogations*	Per Cent	Number of Interrogations	Per Cent
CONAD	274	2	274	1
DIA	7,412	54	7,539	36
NPIC	590	4	590	3
NSA	3,089	23	10,376	49
PACOM	2,267	17	2,267	11
	—	—	—	—
TOTAL	13,632	100	21,046	100

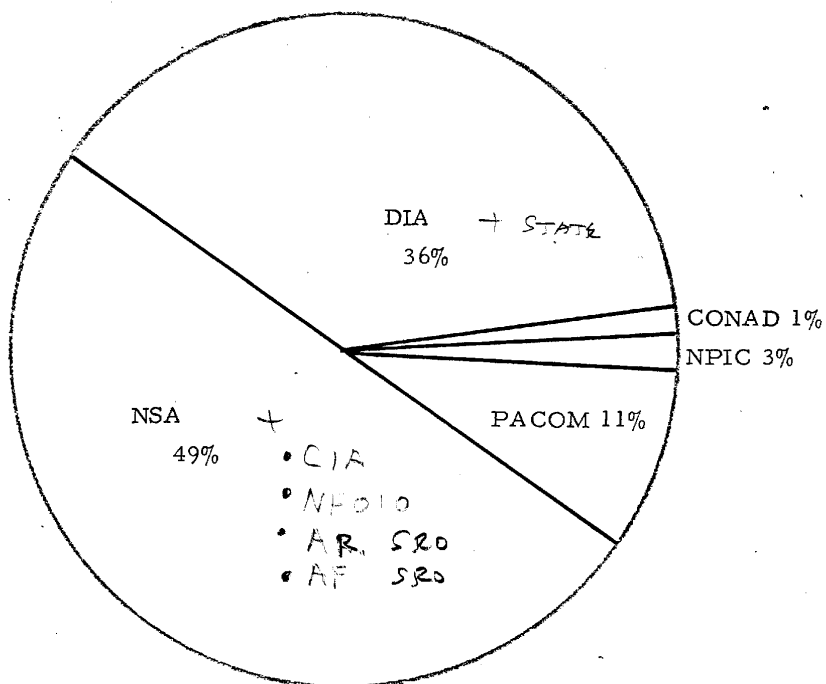
External Traffic omits interrogations against agency's own files.

Switch Traffic omits interrogations against files maintained by agency's Host computer.

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DISTRIBUTION OF COINS TRAFFIC BY HOST SYSTEM
NOV 71 - OCT 72 (U)

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Analysis of COINS Interrogations By Addressee
for Period of
November 1971 - October 1972 (U)

Addressee	Switch Traffic		External Traffic	
	Number of Interrogations	Per Cent	Number of Interrogations	Per Cent
CONAD	100	1	100	-
DIA	3,355	24	3,482	17
NPIC	83	1	83	-
NSA	10,093	74	17,380	83
PACOM	1	-	1	-
TOTAL	13,632	100	21,046	100

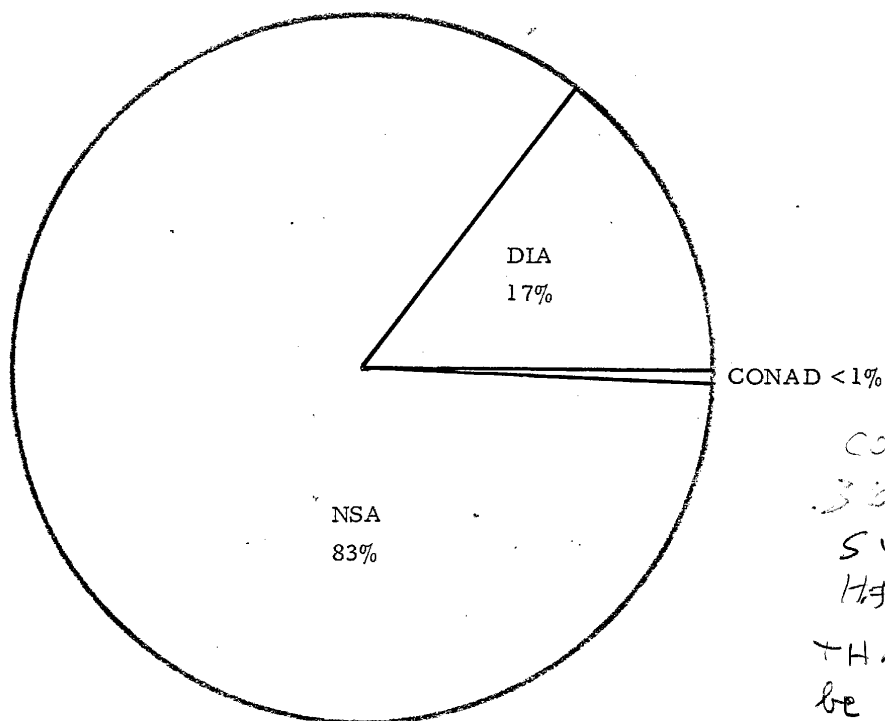
External Traffic omits interrogations against agency's own files.

Switch Traffic omits interrogations against files maintained by agency's Host computer.

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DISTRIBUTION OF COINS TRAFFIC BY ADDRESSEE
NOV 71 - OCT 72 (U)

CONAD/NOBAC
300/40
SW.
HAS 1 FILE
THAT can
be interrogated,
(i.e. a 3rd
Host computer

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Type of Reply Received By Host System (U)

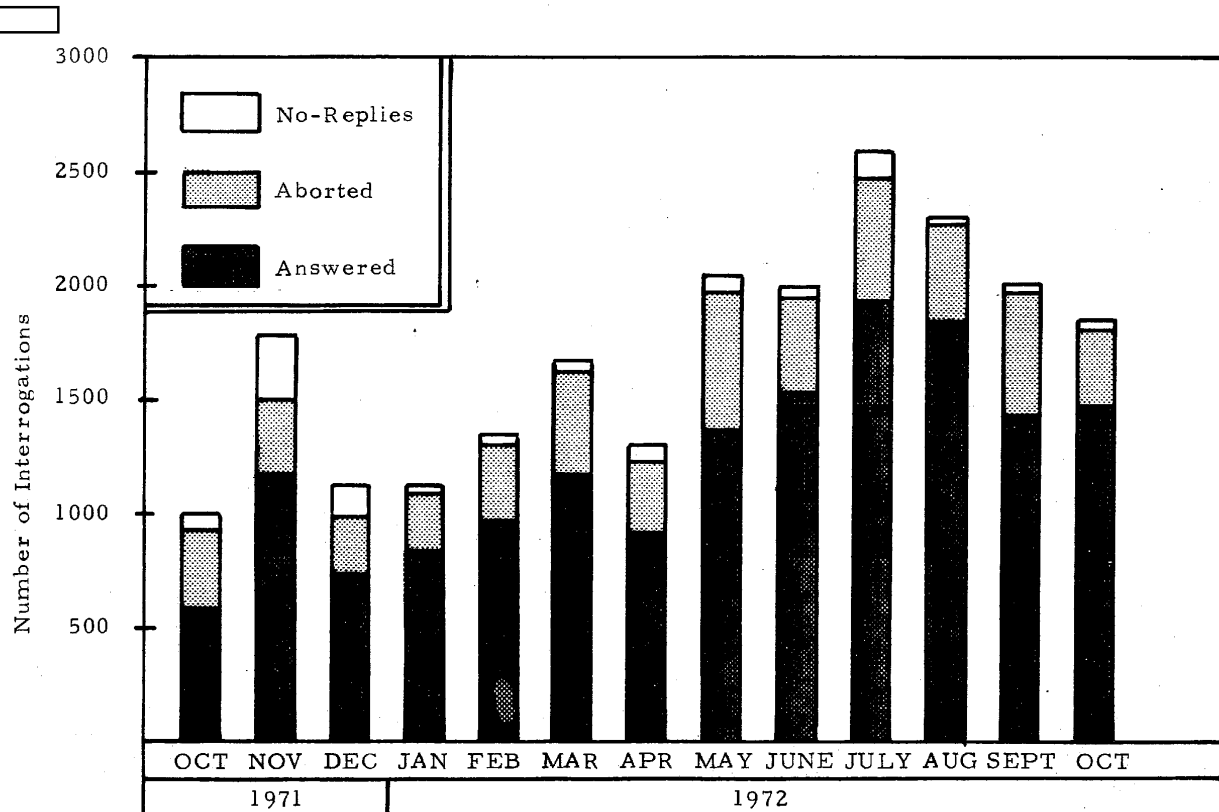
These data reflect the results of the total COINS Network's success in providing a reply to each interrogation received by a Host system from a user. It reflects the (1) cumulative processing performed by three computer systems (host, switch and addressee) for inter-agency traffic and (2) cumulative processing performed by the host computer for intra-Host traffic.

Month		Inter- rogations	Replies		No Replies	Per Cent Success- ful
			Answers	Aborts		
Oct 1971	Number Per Cent	(1004) 100	(755) 75	(166) 17	(83) 8	92
Nov 1971	Number Per Cent	1728 100	1139 66	359 21	230 13	87
Dec 1971	Number Per Cent	1072 100	722 68	260 24	90 8	92
Jan 1972	Number Per Cent	1104 100	837 76	247 22	20 2	98
Feb 1972	Number Per Cent	1359 100	959 71	370 27	30 2	98
Mar 1972	Number Per Cent	1697 100	1175 69	445 26	77 5	95
Apr 1972	Number Per Cent	1303 100	921 71	307 23	75 6	94
May 1972	Number Per Cent	2052 100	1377 67	599 29	76 4	96
June 1972	Number Per Cent	1972 100	1532 78	403 20	37 2	98
July 1972	Number Per Cent	2599 100	1910 73	565 22	124 5	95
Aug 1972	Number Per Cent	2319 100	1842 79	455 20	22 1	99
Sept 1972	Number Per Cent	1970 100	1393 71	540 27	37 2	98
Oct 1972	Number Per Cent	1817 100	1434 79	361 20	22 1	99
TOTAL	Number Per Cent	20992 100	15241 73	4911 23	840 4	96

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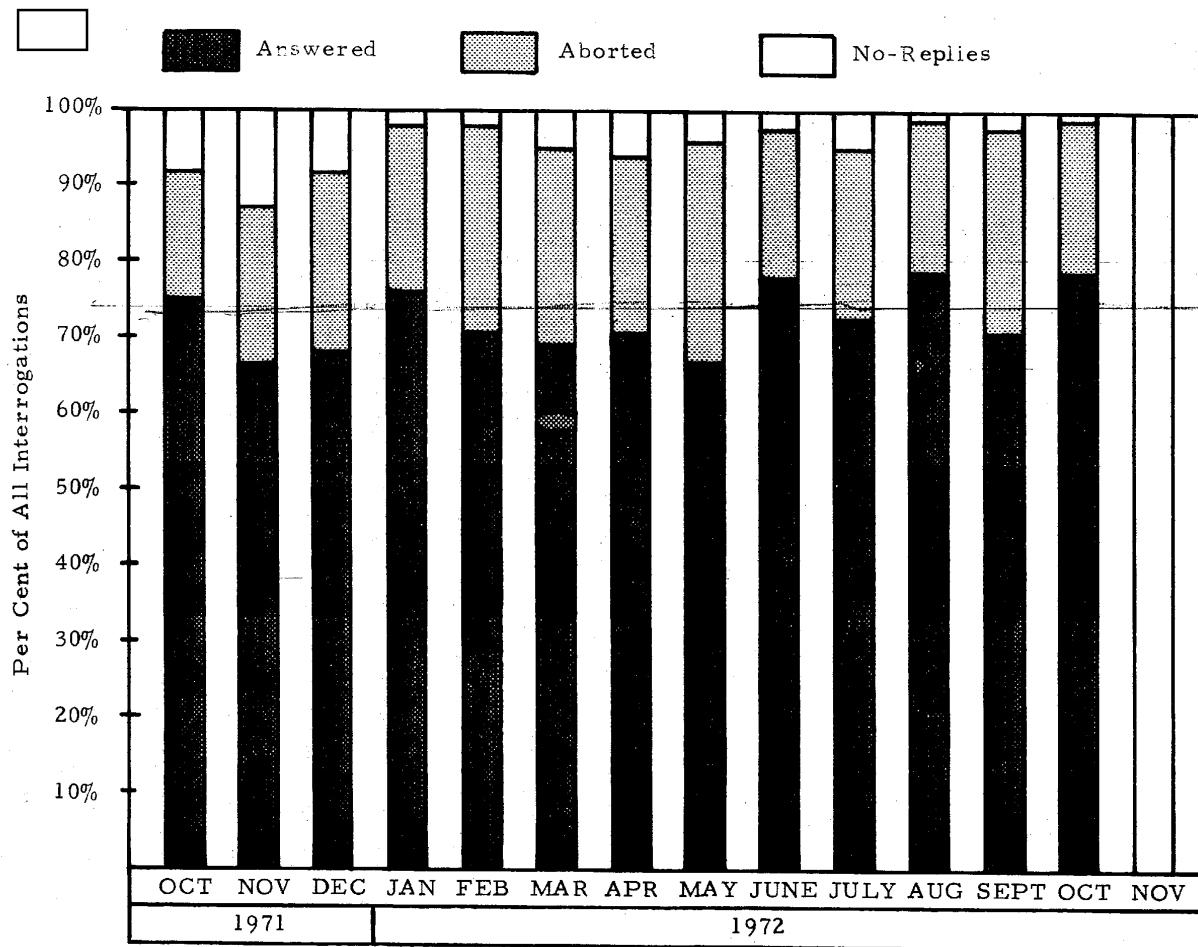


Type of Reply Received By Host System (U)

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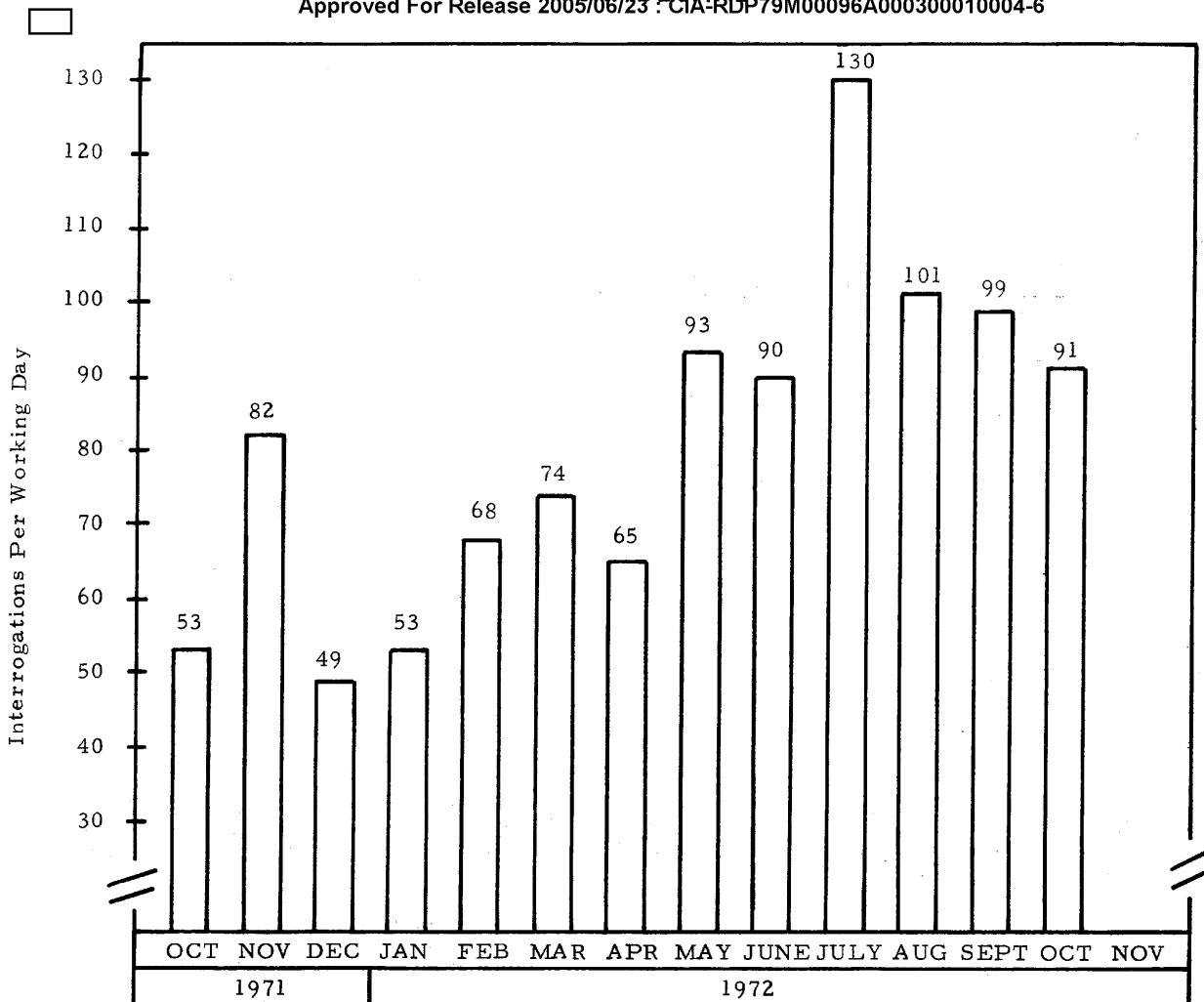


Percentages of Type of Replies Received By the Host Systems (U)

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Average Number of COINS Interrogations Per Working Day (U)

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Milestones in COINS Interrogation Processing

User Terminal	Host Computer	COINS Switch	Addressee Computer
1. User inputs inter-rogation (INTG). <i>Present method of recording response times (i.e. not overall terminal-to-terminal).</i>	1a. Host receives INTG. 2. Host queues INTG. 3. Host sends INTG. 4a. Host receives receipt for INTG. 13a. Host receives reply. 14. Host sends receipt for reply. 15. Host queues reply. 16. Host sends reply.	3a. Switch receives INTG. 4. Switch sends receipt for INTG. 5. Switch queues INTG. 6. Switch sends INTG. 7a. Switch receives receipt for INTG. 10a. Switch receives reply. 11. Switch sends receipt for reply. 12. Switch queues reply. 13. Switch sends reply. 14a. Switch receives receipt for reply.	6a. Addressee receives INTG. 7. Addressee sends receipt for INTG. : : 8. Addressee develops reply. 9. Addressee queues reply. 10. Addressee sends reply. 11a. Addressee receives receipt for reply.
16a. User receives reply.			

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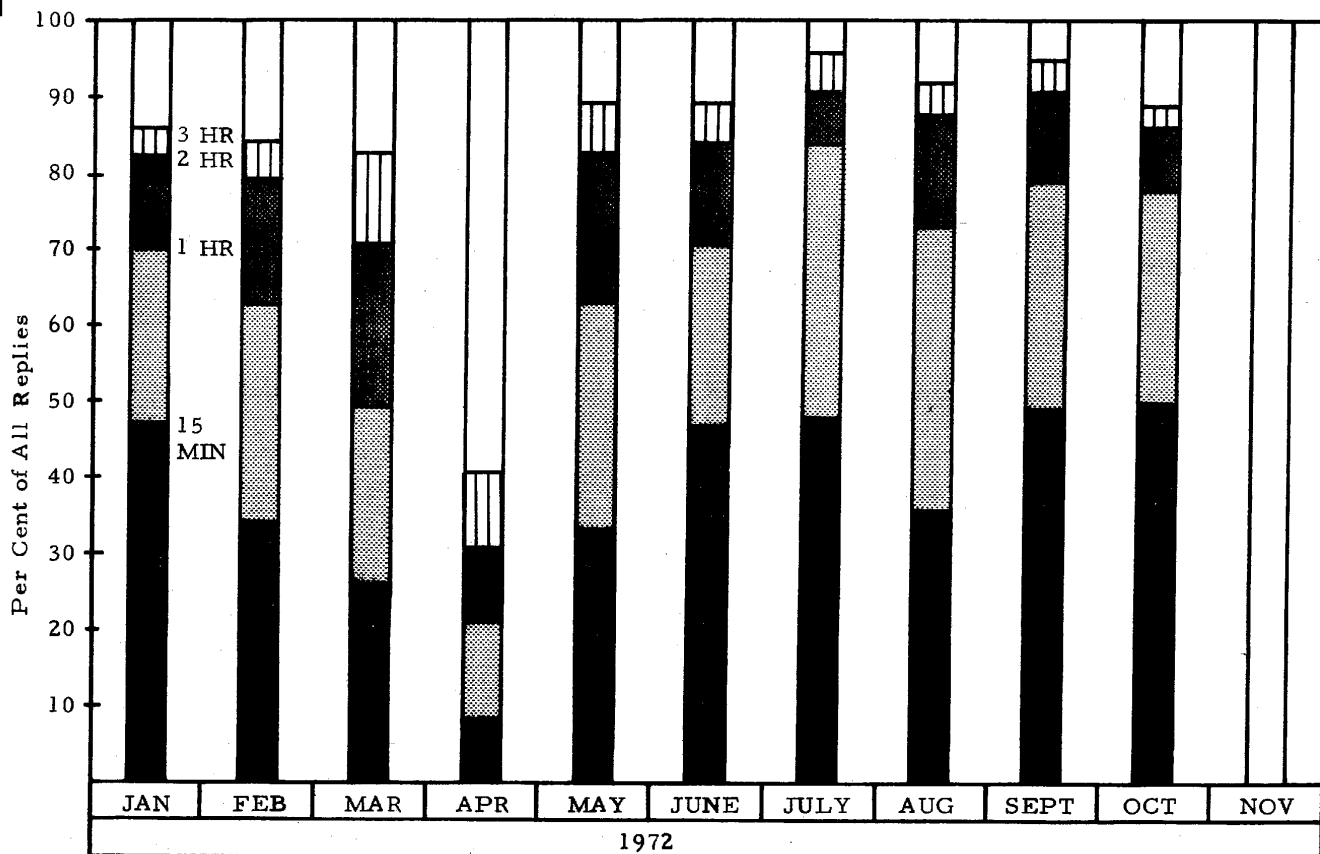
Summary of Host Turnaround Time for COINS Traffic By Month (U)

1972 Month		Number of Replies With Turnaround Time By Number of Minutes							
		1-15	16-30	30-60	1-60	61-120	121-180	>180	Total
January	Number	220	55	53	328	57	17	67	469
	Per Cent	47	12	11	70	12	4	14	100
February	Number	222	82	101	405	108	33	101	647
	Per Cent	34	13	16	63	16	5	16	100
March	Number	241	84	135	460	206	113	160	939
	Per Cent	26	9	14	49	22	12	17	100
April	Number	55	25	66	146	74	68	406	694
	Per Cent	8	4	9	21	10	10	59	100
May	Number	385	179	190	754	230	73	135	1192
	Per Cent	33	15	16	63	20	6	11	100
June	Number	371	83	109	563	104	37	84	788
	Per Cent	47	10	14	71	13	5	11	100
July	Number	376	129	157	662	56	41	29	788
	Per Cent	48	16	20	84	7	5	4	100
August	Number	340	142	208	690	142	38	83	953
	Per Cent	36	15	22	73	15	4	8	100
September	Number	392	125	114	631	90	35	41	797
	Per Cent	49	16	14	79	12	4	5	100
October	Number	525	170	128	823	88	31	112	1054
	Per Cent	50	16	12	78	8	3	11	100
TOTAL	Number	3127	1074	1261	5462	1155	486	1218	8321
	Per Cent	38	13	15	66	14	6	14	100

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This chart depicts the turnaround time experienced by the Host computer beginning when it transmits interrogation to the Switch and ends when the Host receives reply from the Switch. It is based upon those interrogations originated by its users that require use of the COINS Switch for forwarding. Turnaround time is the cumulative processing performed by the Host, Switch and Addressee computers.

Monthly Distribution of Host Turnaround Time for Replies to COINS Interrogations (U)

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PROBLEMS

RETRANSMITTED MESSAGES

IDENTIFYING SUBSCRIBERS

DIFFERENCES IN RECORDING TIME

DIFFERENCES IN DEFINING TURNAROUND TIME

OVERNIGHT TRAFFIC

ABSENCE OF HOST LOGS FROM CONAD AND PACOM

SWITCH'S SUPPORT TO IDHSC

ABSENCE OF DATA ON DIAOLS' USE OF DIA COINS
FILES

UNAVAILABILITY OF BREAK/READY STATUS DATA

- Needs
standardized
reporting system,

DAL, Comt
• SYSTEM DEFICIENCIES

- TECH CONTROL

(i.e. isolate trouble -
terminal, communications/
teleprocessing, or
host computer system)

- SPEED -

- CRT

- PRINTER

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SUMMARY

COINS' USAGE HAS STEADILY INCREASED PEAKING IN JULY.
SINCE JULY, HAS LEVELED OUT.

COINS' SUCCESS IN PROVIDING A REPLY HAS SIGNIFICANTLY
IMPROVED AND HAS ACHIEVED 98-99% FOR THE LAST
THREE MONTHS.

HOST TURNAROUND TIME HAS STEADILY IMPROVED AFTER
SYSTEM CHANGES IN THE SPRING; ABOUT 44%
OF REPLIES BEING RECEIVED WITHIN 15 MINUTES
AND 75% WITHIN THE FIRST HOUR.

STRFA AND FINTL FILES ARE MOST FREQUENTLY INTERROGATED.
12 FILES HAVE BEEN ^{added} TO COINS AND 5 FILES HAVE BEEN REMOVED.

NSA RECEIVES AND PROCESSES 83% OF ALL COINS INTERROGA-
TIONS.

NSA SUBSCRIBERS ORIGINATE 49% OF ALL COINS INTERROGA-
TIONS.

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MEMORANDUM FOR:

Attachments 2-7 to
HAC-MM-369 -
6th Meeting of
ASD/I Coins Review Group
6th MTG
(DATE)

FORM NO. 101 REPLACES FORM 10-101
1 AUG 54 WHICH MAY BE USED.

(47)